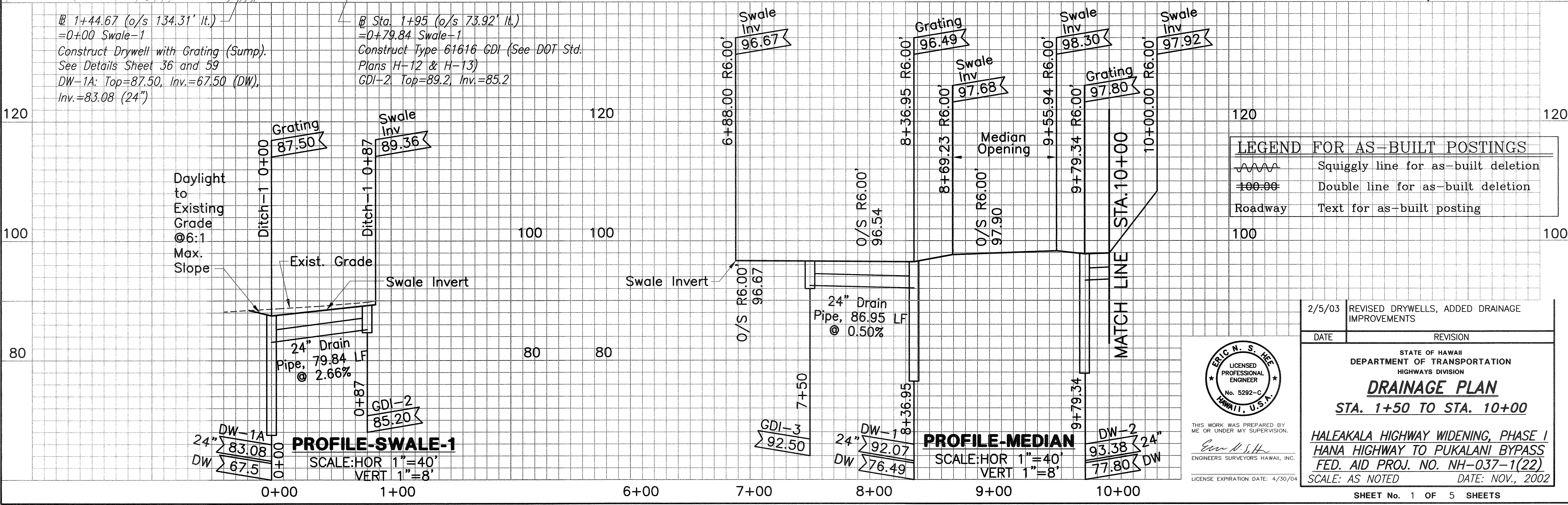
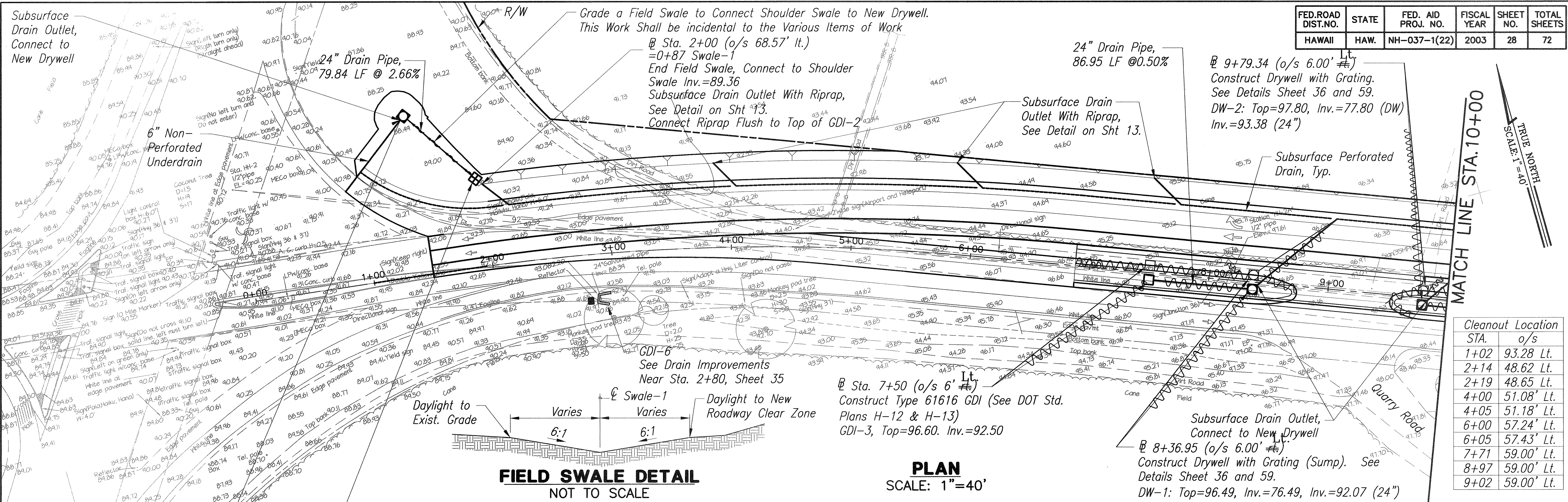


\\esh-1\ESH\Engineering\Projects\1994\194-056 Haleakala Hwy\PHASE 1\FINAL\AS-BUILT\5ADD1 PH1-DRAIN.dwg, Model, 3/28/2008 10:56:37 AM, 1:40

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY		

94-56 Haleakala-Phase 1 PH1-DRAIN.dwg 1=40, 03/19/06 AMR



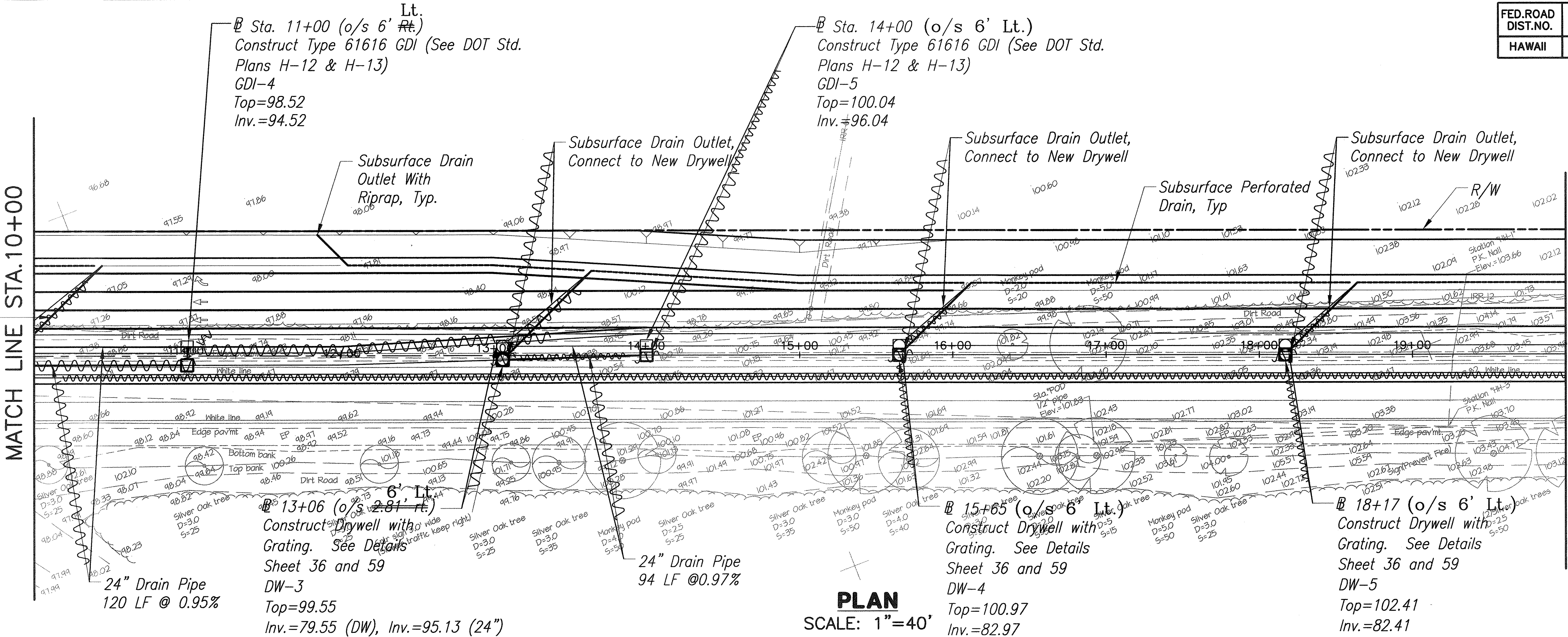
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(22)	2003	29	72

TRUE NORTH
SCALE: 1"=40'

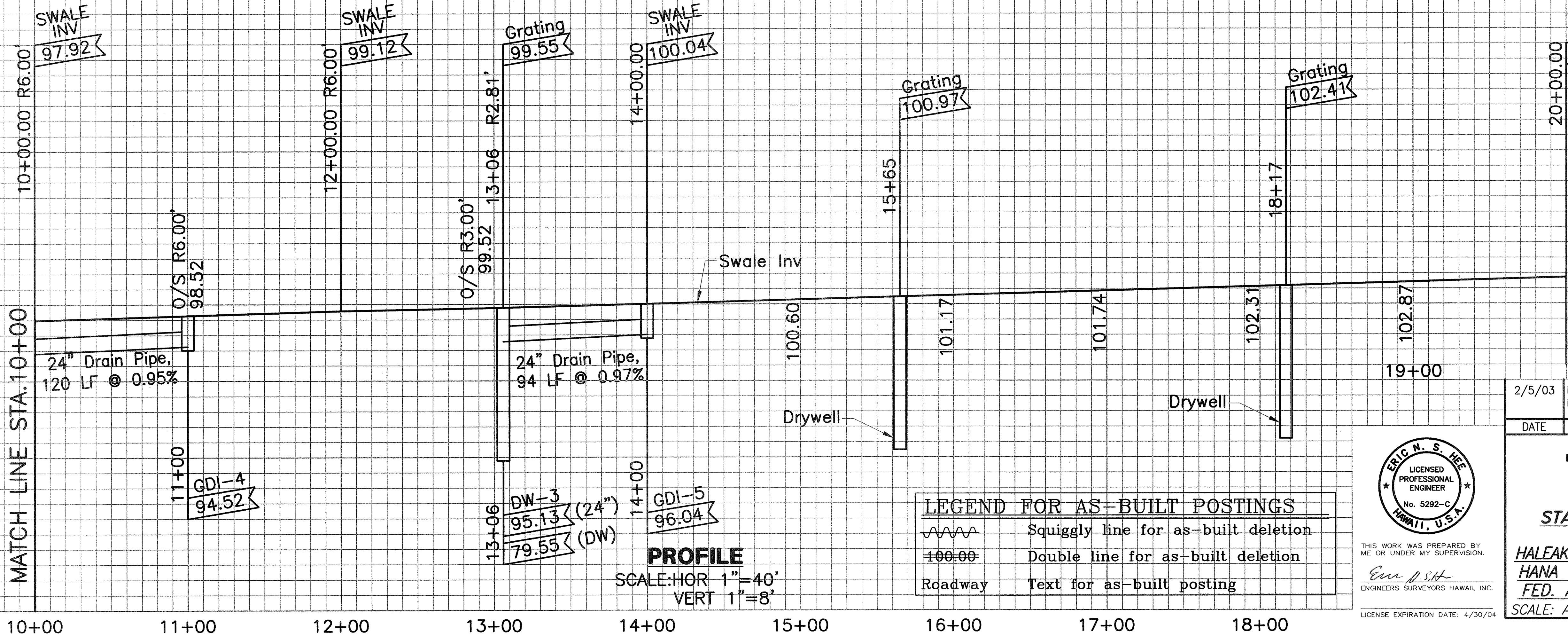
MATCH LINE STA. 10+00

MATCH LINE STA. 20+00

Cleanout Location STA.	o/s
10+39	59.00' Lt.
10+44	59.00' Lt.
12+00	59.00' Lt.
12+05	59.00' Lt.
13+59	55.47' Lt.
13+64	55.17' Lt.
16+07	47.00' Lt.
16+12	47.00' Lt.
18+59	47.00' Lt.
18+64	47.00' Lt.

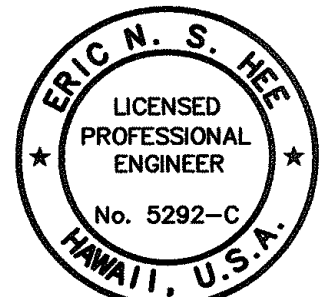


PLAN
SCALE: 1"=40'



PROFILE
SCALE: HOR 1"=40'
VERT 1"=8'

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Eric N. S. Hee
ENGINEERS SURVEYORS HAWAII, INC.
LICENSE EXPIRATION DATE: 4/30/04

2/5/03	REVISED DRYWELLS, ADDED DRAINAGE IMPROVEMENTS
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION Drainage Plan STA. 10+00 TO STA. 20+00 HALEAKALA HIGHWAY WIDENING, PHASE I HANA HIGHWAY TO PUKALANI BYPASS FED. AID PROJ. NO. NH-037-1(22) SCALE: AS NOTED DATE: NOV., 2002	

SHEET No. 2 OF 5 SHEETS

AS-BUILT ADD. 29

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

94-56 Haleakala-Phase I PH-1-DRAIN.dwg 1=40, 09/18/06 AMR

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(22)	2003	30	72

20+69 (o/s 6' Lt.)
Construct Drywell with Grating. See Details Sheet 36 and 59
DW-6
Top=103.83
Inv.=83.83

23+21 (o/s 6' Lt.)
Construct Drywell with Grating. See Details Sheet 36 and 59
DW-7
Top=105.26
Inv.=85.26

24+00 (o/s 6' Lt.)
Construct Drywell with Grating. See Details Sheet 36 and 59
DW-8
Top=105.71
Inv.=85.71

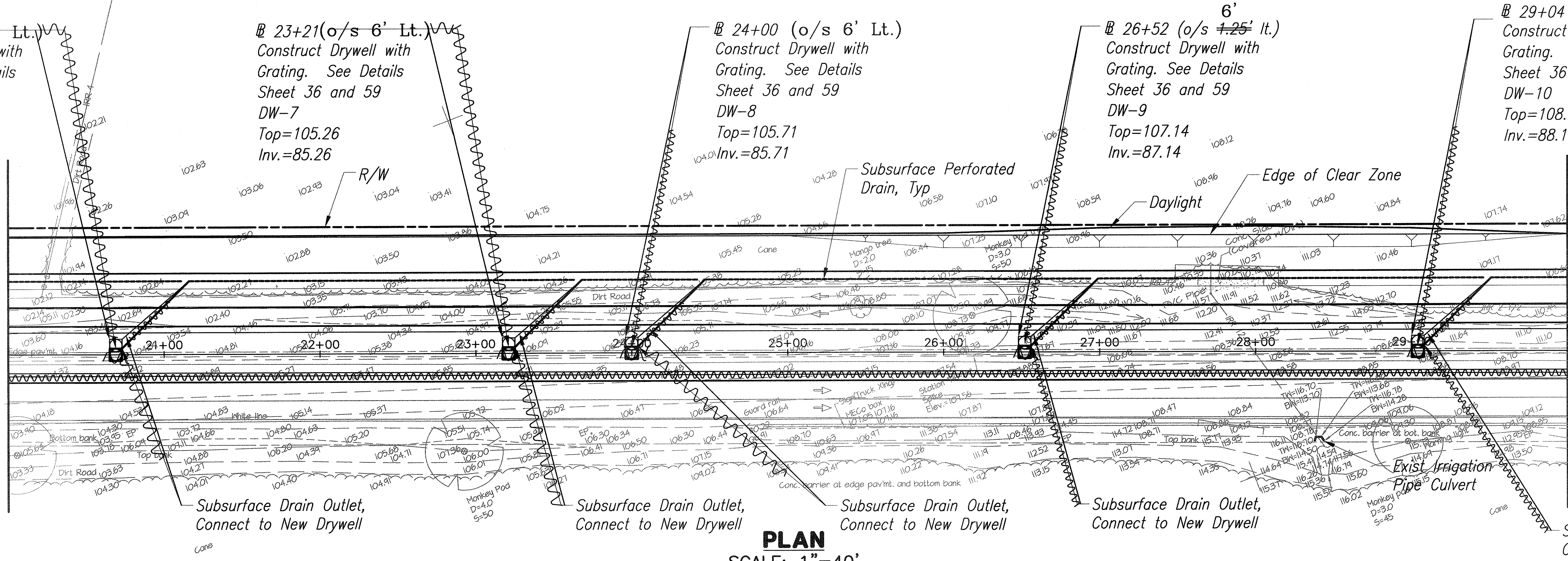
26+52 (o/s 6' Lt.)
Construct Drywell with Grating. See Details Sheet 36 and 59
DW-9
Top=107.14
Inv.=87.14

29+04 (o/s 6' Lt.)
Construct Drywell with Grating. See Details Sheet 36 and 59
DW-10
Top=108.17
Inv.=88.17

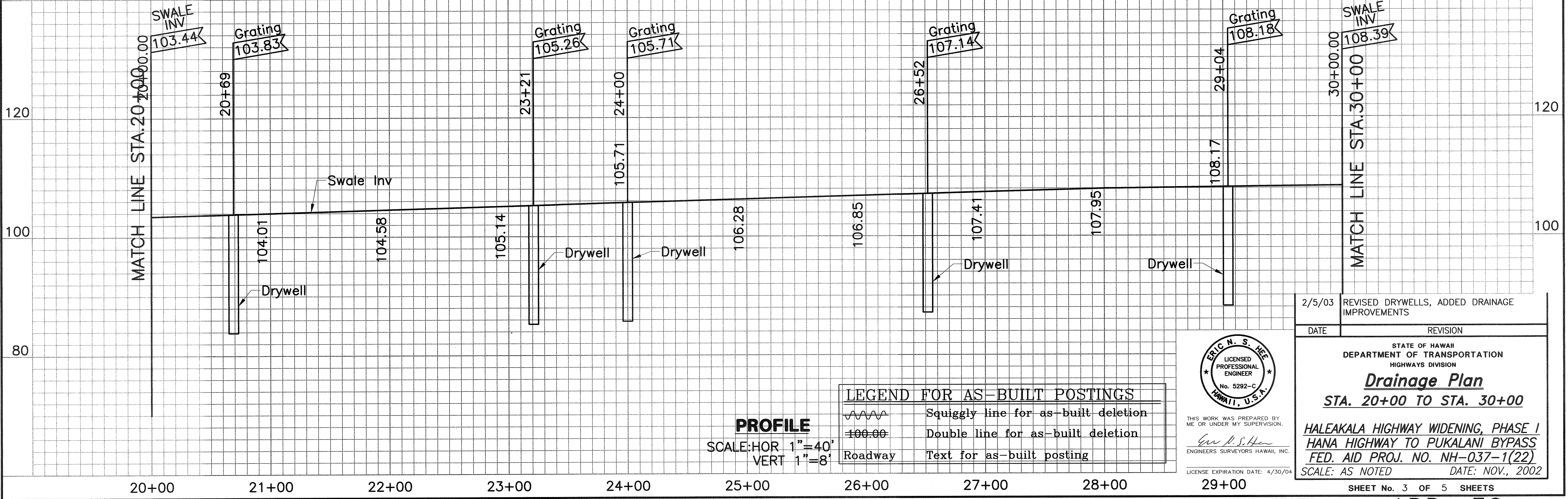
MATCH LINE STA. 20+00

MATCH LINE STA. 30+00

Cleanout Location STA.	o/s
21+11	47.00' Lt.
21+16	47.00' Lt.
23+63	47.00' Lt.
23+68	47.00' Lt.
24+42	47.00' Lt.
24+47	47.00' Lt.
26+94	47.00' Lt.
26+99	47.00' Lt.
29+46	47.00' Lt.
29+51	47.00' Lt.

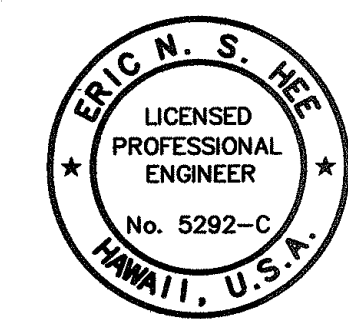


PLAN
SCALE: 1"=40'



PROFILE
SCALE: HOR 1"=40'
VERT 1"=8'

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Roadway
	Text for as-built posting



2/5/03
DATE

REVISED DRYWELLS, ADDED DRAINAGE IMPROVEMENTS
REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Drainage Plan
STA. 20+00 TO STA. 30+00

HALEAKALA HIGHWAY WIDENING, PHASE I
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(22)
SCALE: AS NOTED
DATE: NOV., 2002

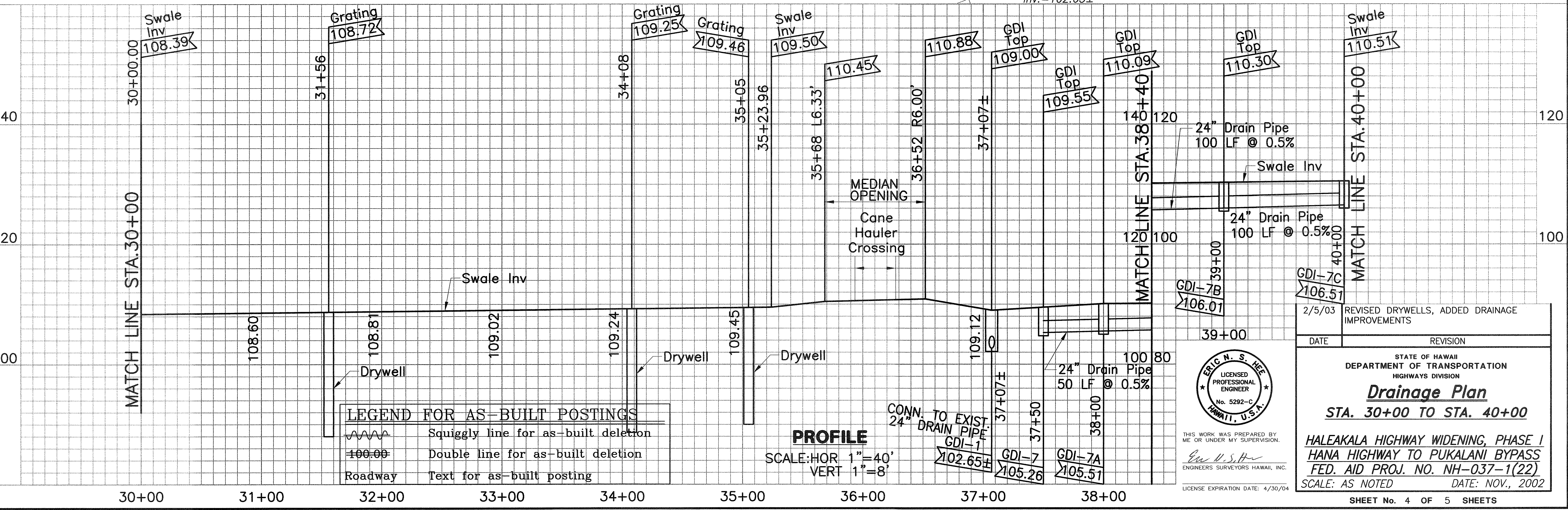
SHEET No. 3 OF 5 SHEETS

\\esh-1\ES4\Engineering\Projects\1994\194-056 Haleakala Hwy\PHASE 1\FINAL\AS-BUILT\TSADD1 Ph1-DRAIN.dwg, Model, 3/28/2008 11:01:33 AM, 1:40

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

94-56 Haleakala-Phase I Ph1-DRAIN.dwg 1=40, 08/18/06 AMR

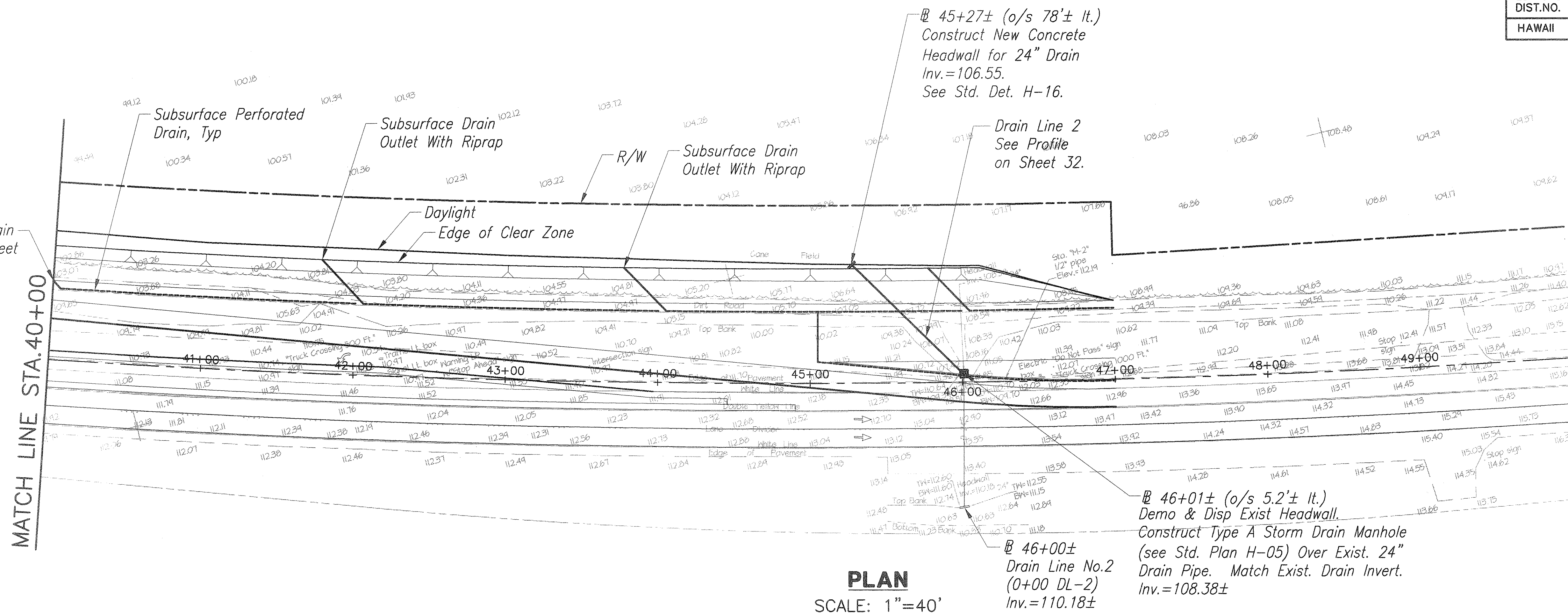
<i>Cleanout</i>	<i>Location</i>
<i>STA.</i>	<i>o/s</i>
31+98	47.00' Lt.
32+03	47.00' Lt.
34+50	47.00' Lt.
34+55	47.00' Lt.
35+56	74.46' Lt.
36+00	47.00' Rt.
36+29	66.42' Lt.
36+56	116.50' Lt.
36+59	120.95' Lt.
36+91	120.95' Lt.
37+12	47.00' Lt.
37+10	215.17' Lt.
37+36	201.82' Lt.
38+00	47.00' Lt.
38+05	47.00' Lt.
40+00	47.00' Lt.



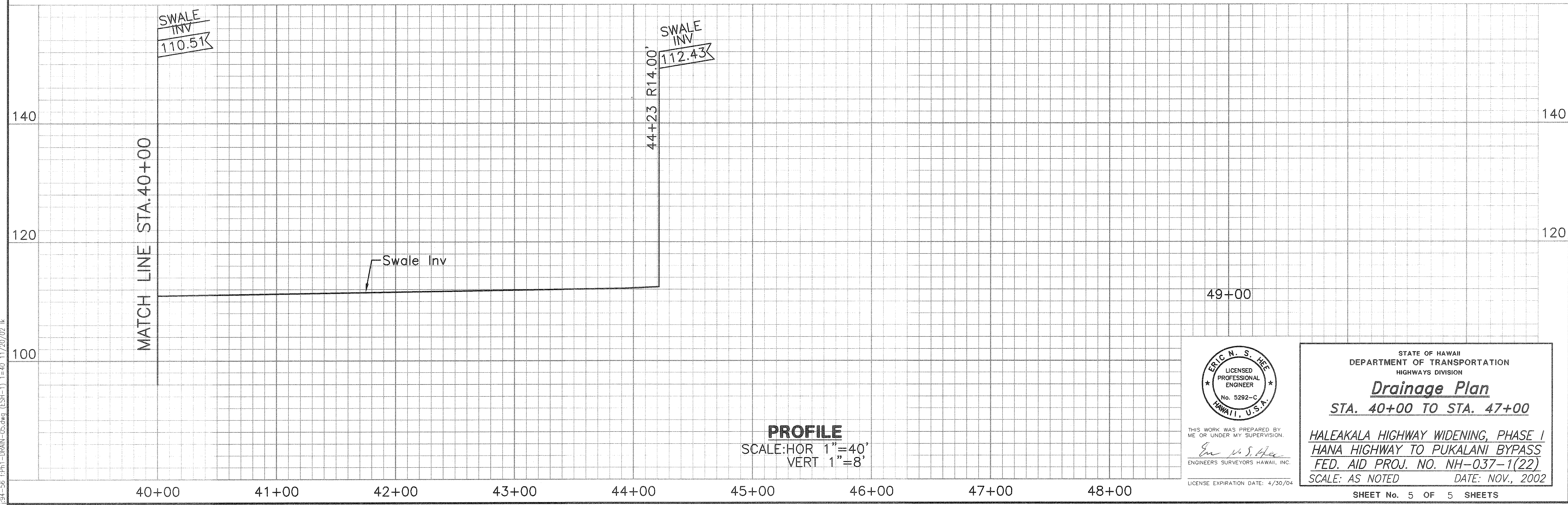
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(22)	2003	32	72

TRUE NORTH
SCALE: 1"=40'

STA.	o/s
40+05	47.00' Lt.
42+00	47.00' Lt.
42+05	47.00' Lt.
44+00	47.00' Lt.
44+05	47.00' Lt.
45+05	14.00' Lt.
45+05	47.00' Lt.
46+00	47.00' Lt.
46+05	47.00' Lt.
47+00	0.75' Rt.
47+00	47.00' Lt.



PLAN
SCALE: 1"=40'



PROFILE
SCALE: HOR 1"=40'
VERT 1"=8'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NO. 1	DESIGNED BY	
NO. 2	CHECKED BY	
NO. 3		
NO. 4		
NO. 5		
NO. 6		
NO. 7		
NO. 8		
NO. 9		
NO. 10		

134-56 fPh1-RAIN-05.dwg (ESH-1) 1=40 11/20/02 lk

ERIC M. S. HEE
LICENSED PROFESSIONAL ENGINEER
No. 5292-C
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
ENGINEERS SURVEYORS HAWAII, INC.
LICENSE EXPIRATION DATE: 4/30/04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
Drainage Plan
STA. 40+00 TO STA. 47+00
HALEAKALA HIGHWAY WIDENING, PHASE I
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(22)
SCALE: AS NOTED DATE: NOV., 2002
SHEET No. 5 OF 5 SHEETS